

This Page Is Inserted by IFW Operations  
and is not a part of the Official Record

## **BEST AVAILABLE IMAGES**

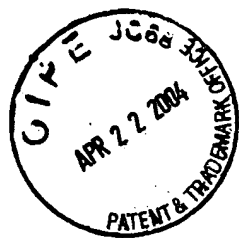
Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

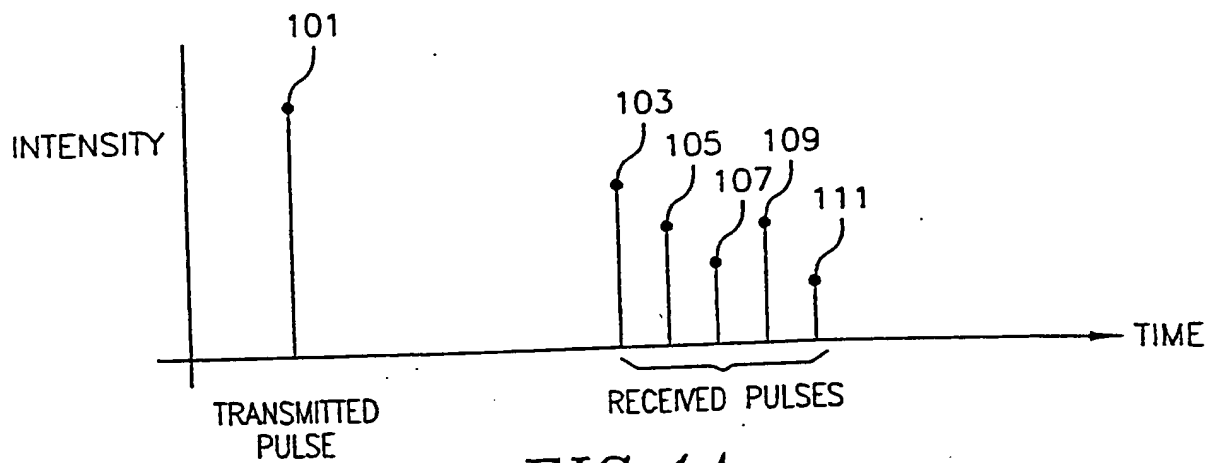
- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

**IMAGES ARE BEST AVAILABLE COPY.**

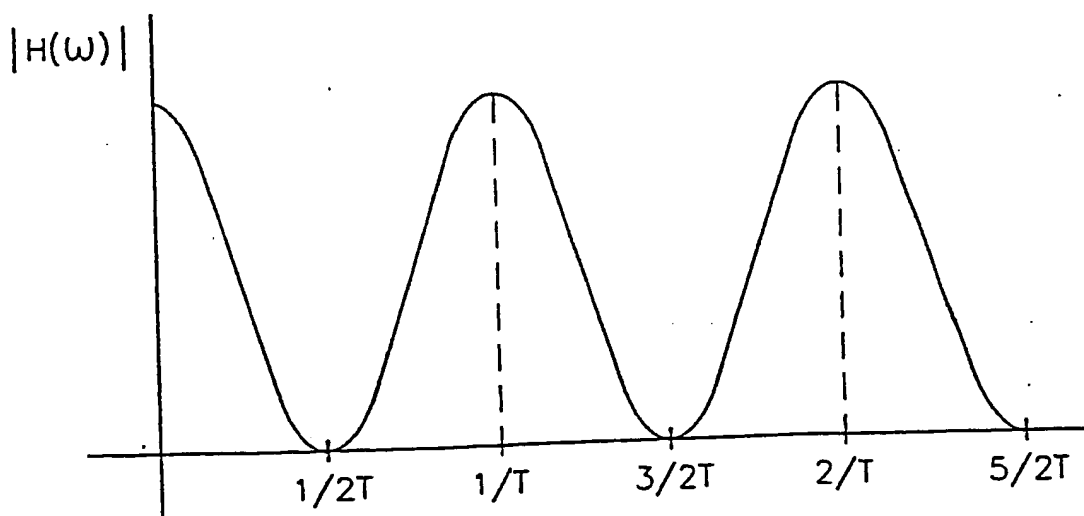
**As rescanning documents *will not* correct images,  
please do not report the images to the  
Image Problem Mailbox.**



TITLE: METHOD, APPARATUS AND SYSTEM  
FOR HIGH-SPEED TRANSMISSION ...  
INVENTOR: AGAZZI  
APPLICATION NO.: 10/713,449,  
CONF. NO. ; DOCKET NO. 13449US06  
ATTORNEY: JAW, PHONE: 312-775-8000

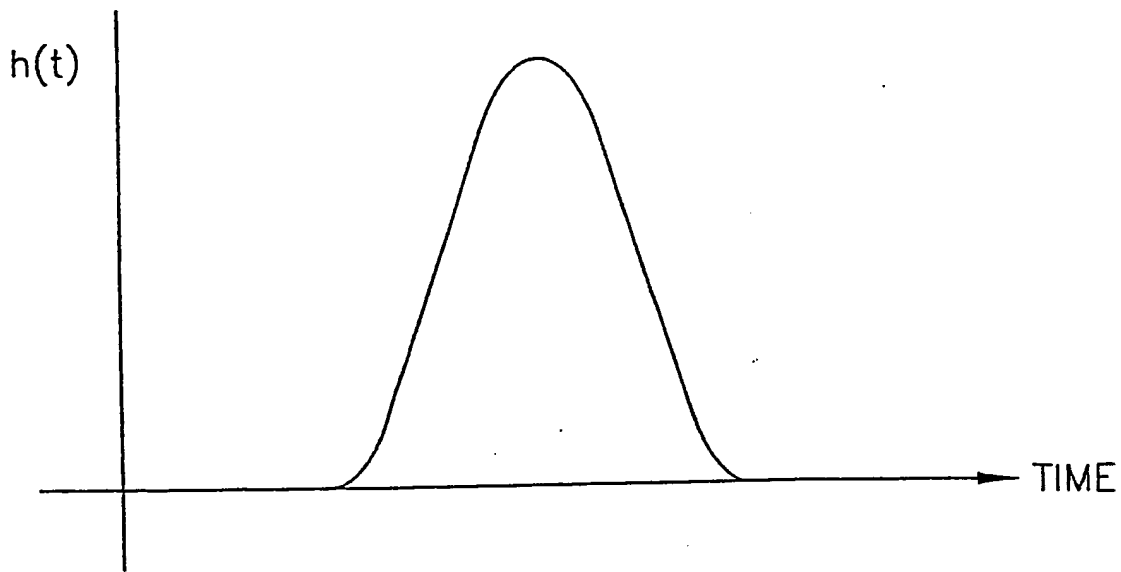


*FIG. 1A*

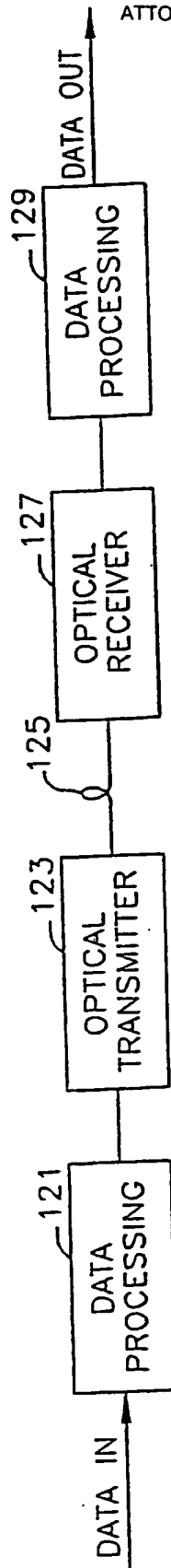


*FIG. 1B*

TITLE: METHOD, APPARATUS AND SYSTEM  
FOR HIGH-SPEED TRANSMISSION ...  
INVENTOR: AGAZZI  
APPLICATION NO.: 10/713,449,  
CONF. NO. ; DOCKET NO. 13449US06  
ATTORNEY: JAW, PHONE: 312-775-8000



*FIG. 1C*



*FIG. 1D*

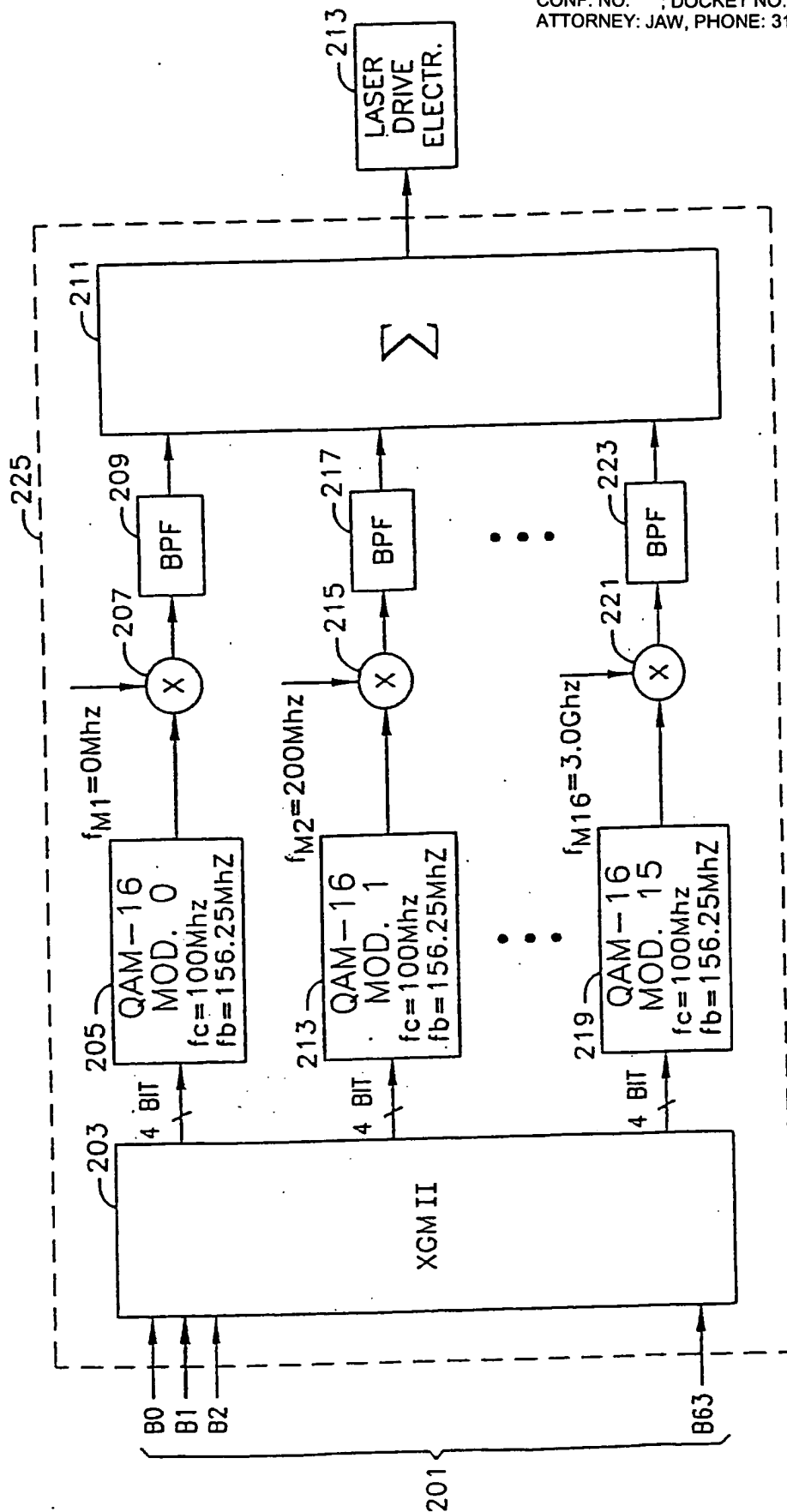
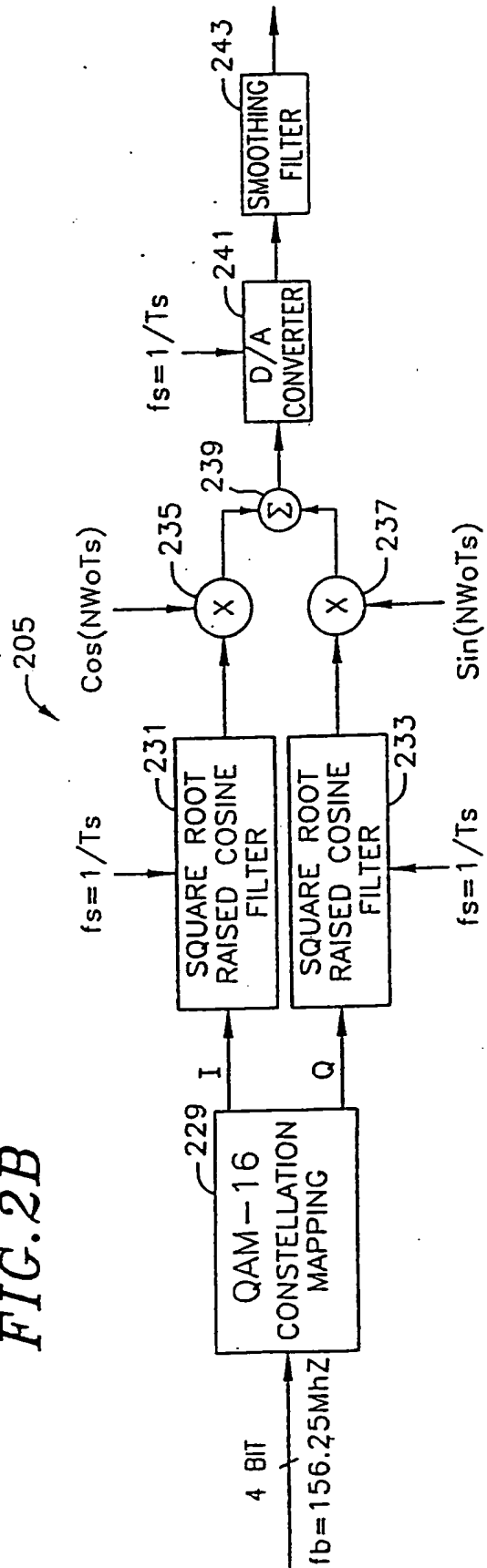
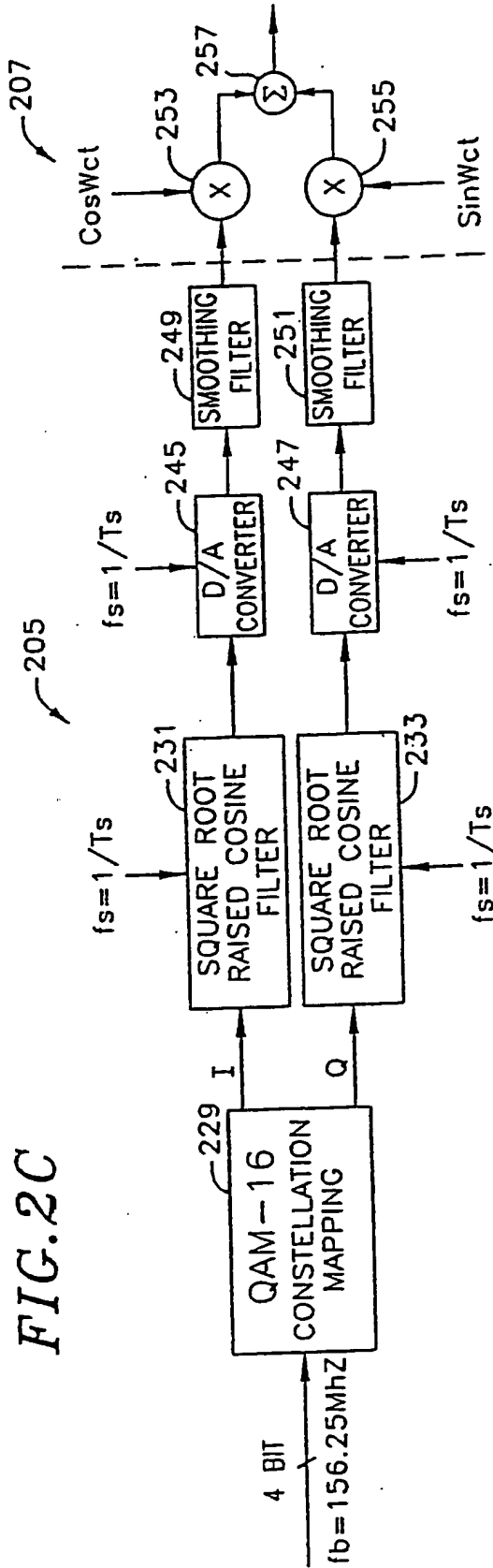


FIG. 2B



$T_s = \text{SAMPLING PERIOD}$   
 $\omega_n = 2\pi f_s = \text{DIGITAL CARRIER ANGULAR FREQUENCIES}$



$T_s$  = SAMPLING PERIOD FOR DSP BLOCKS  
 $W_n = 2\pi f_s$  = DIGITAL CARRIER ANGULAR FREQUENCIES

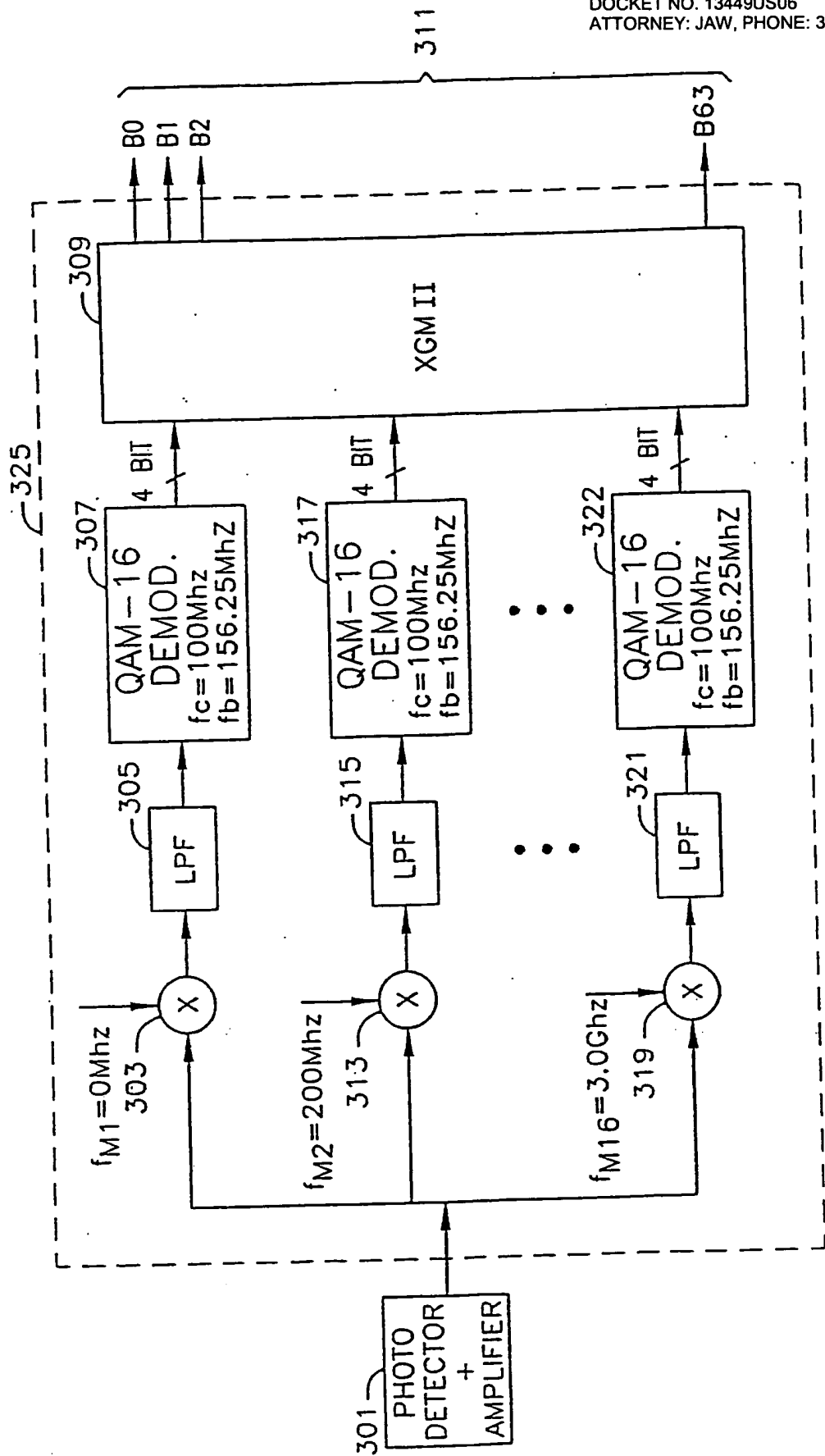


FIG. 3



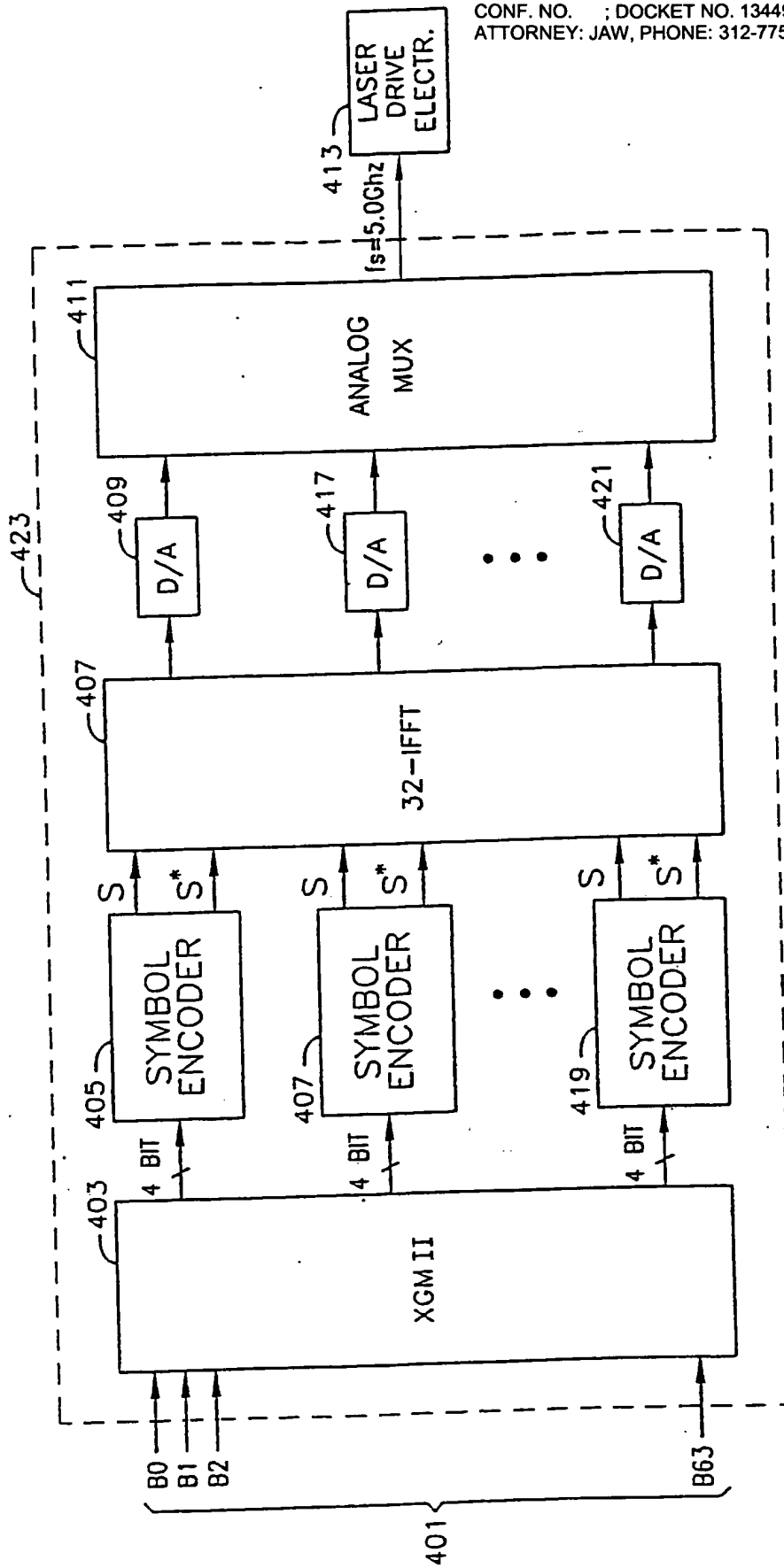


FIG. 4

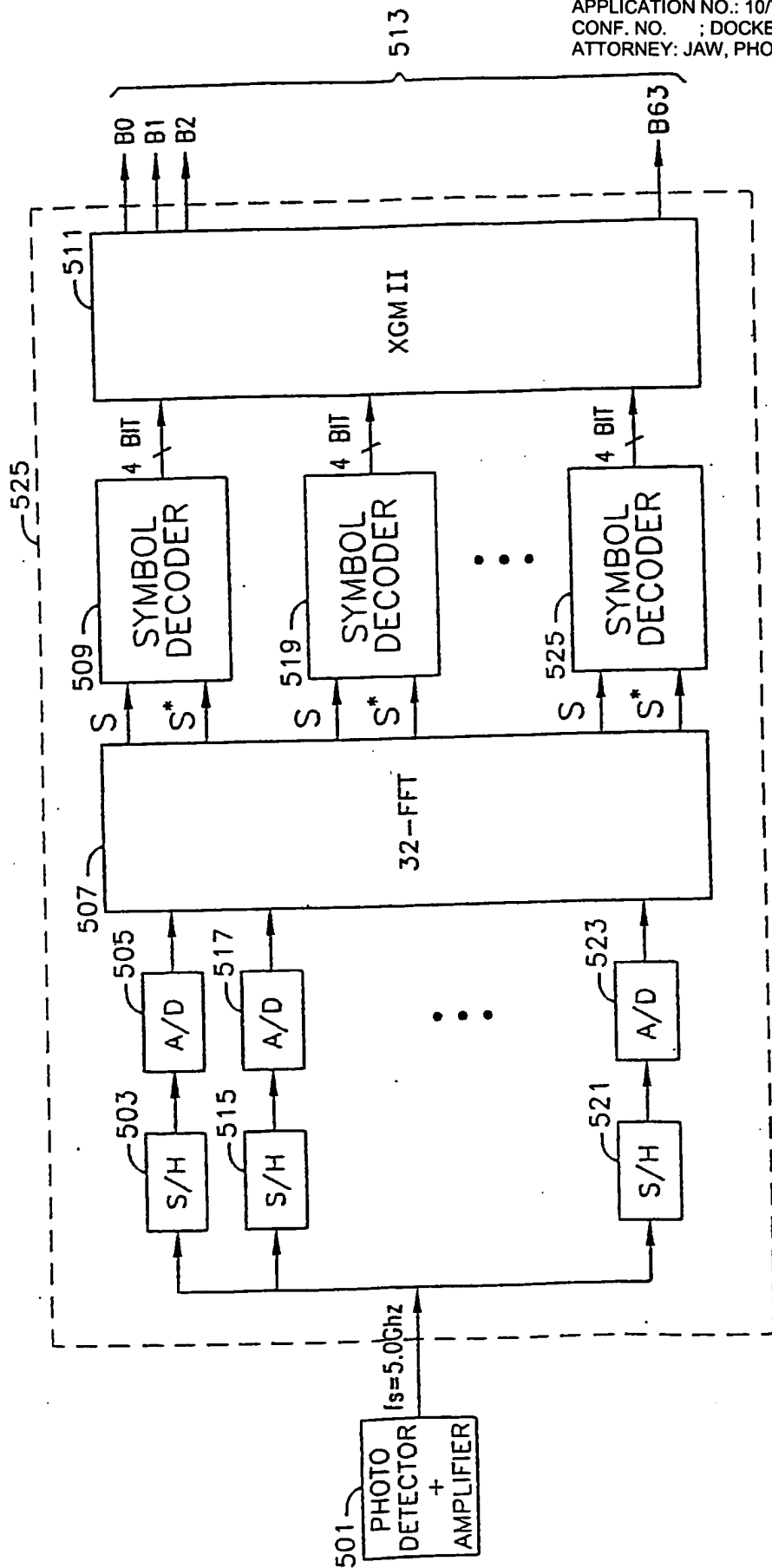
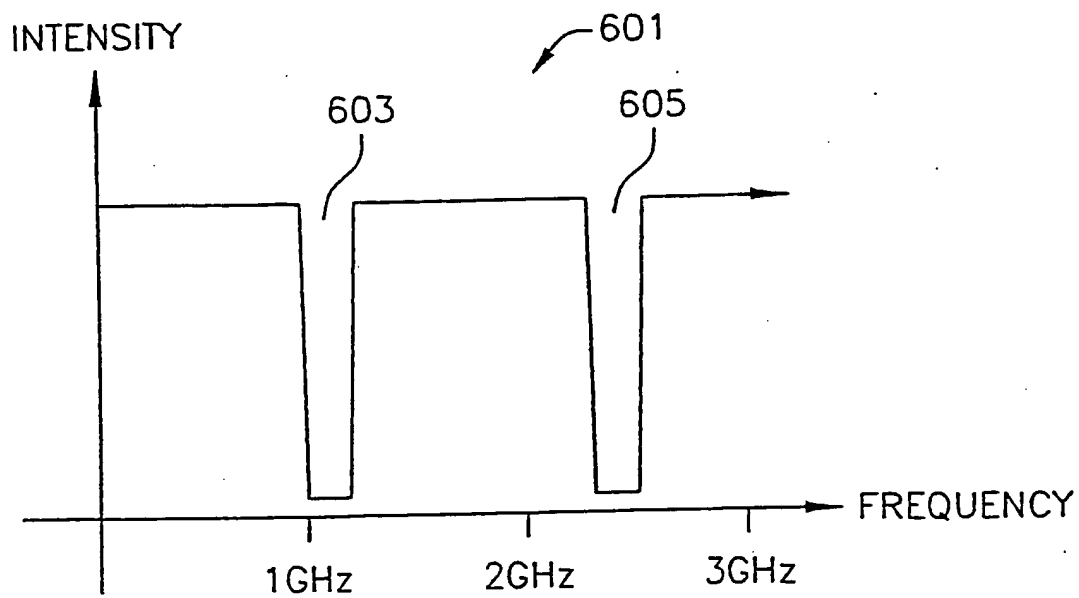


FIG. 5



*FIG. 6*

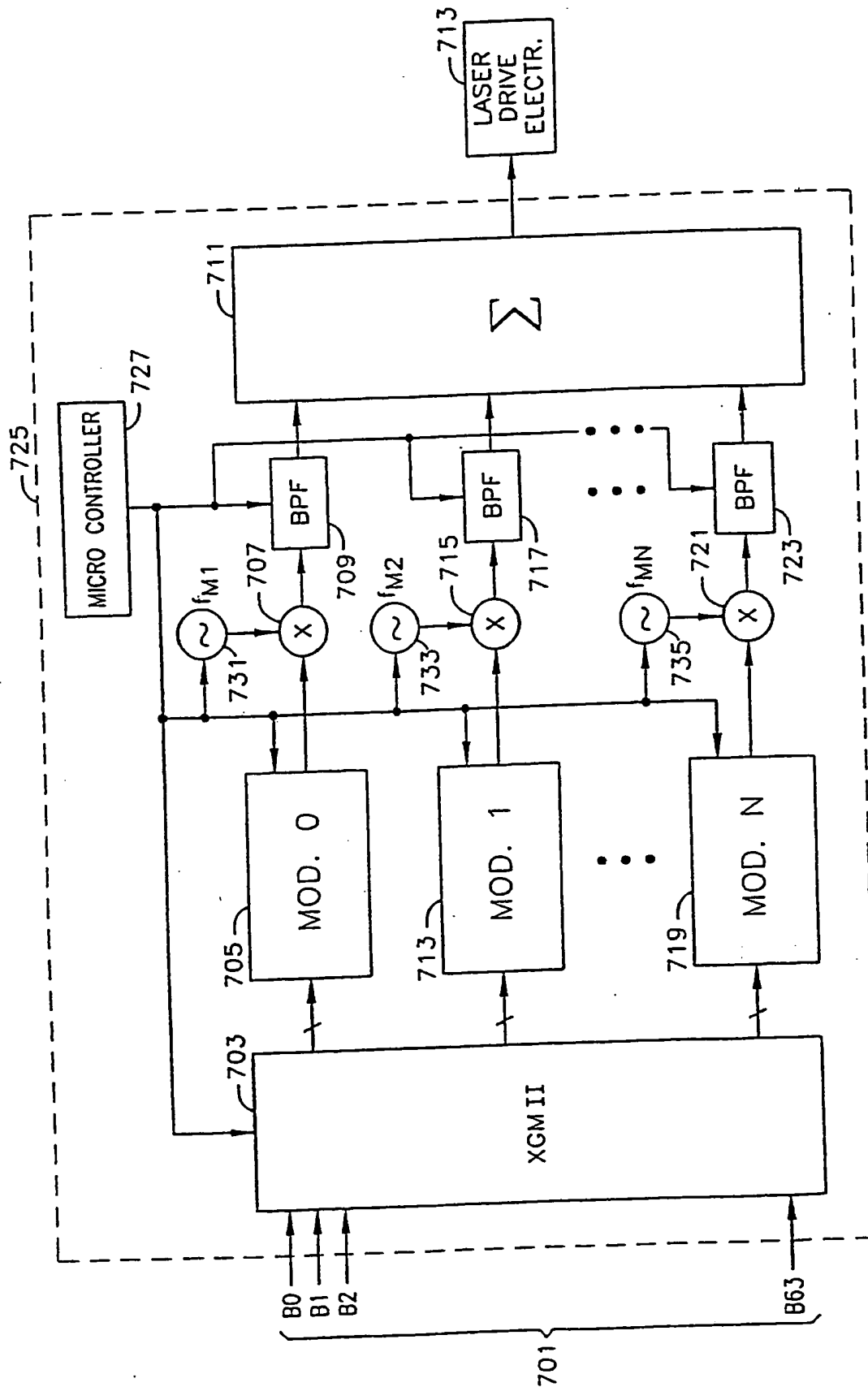
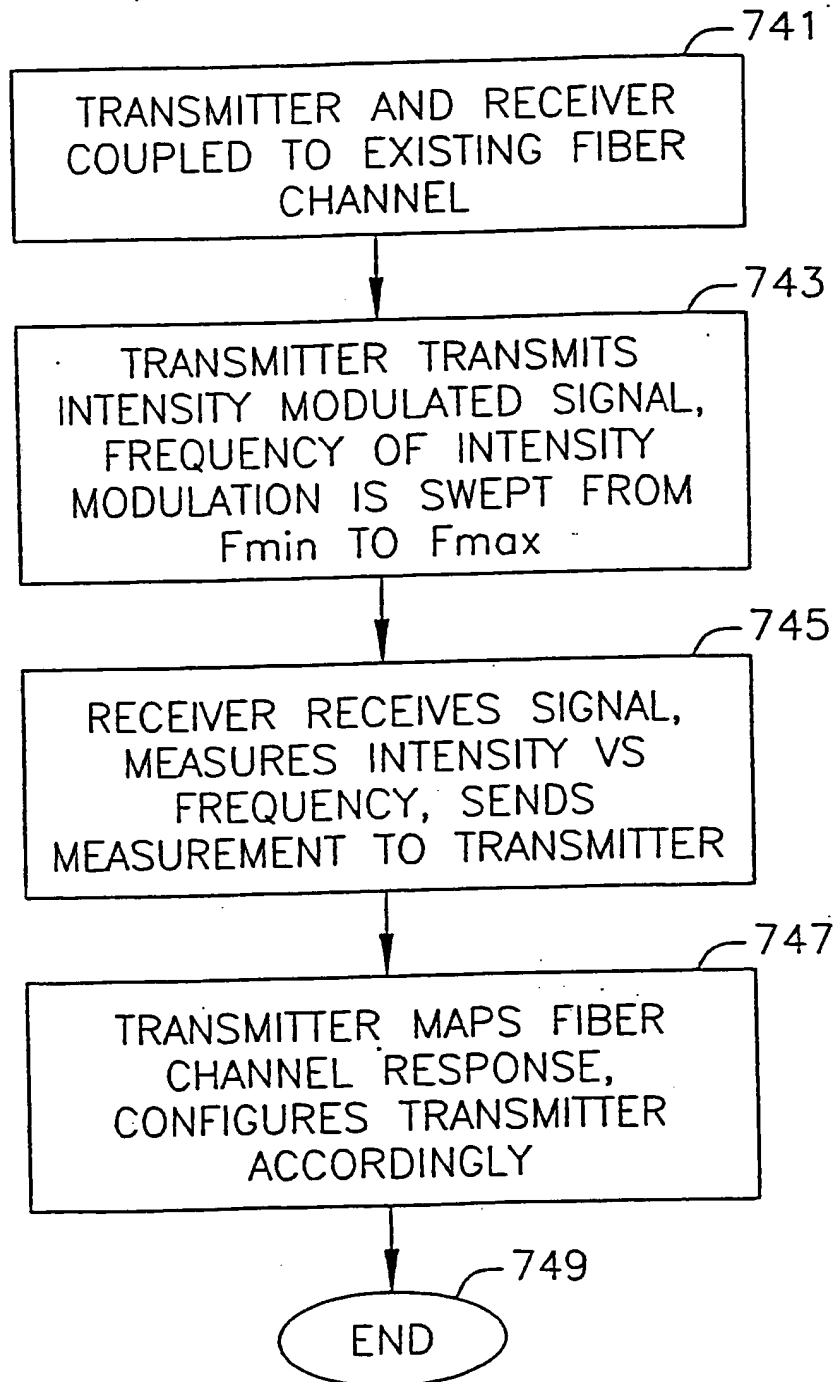


FIG. 7A

*FIG. 7B*



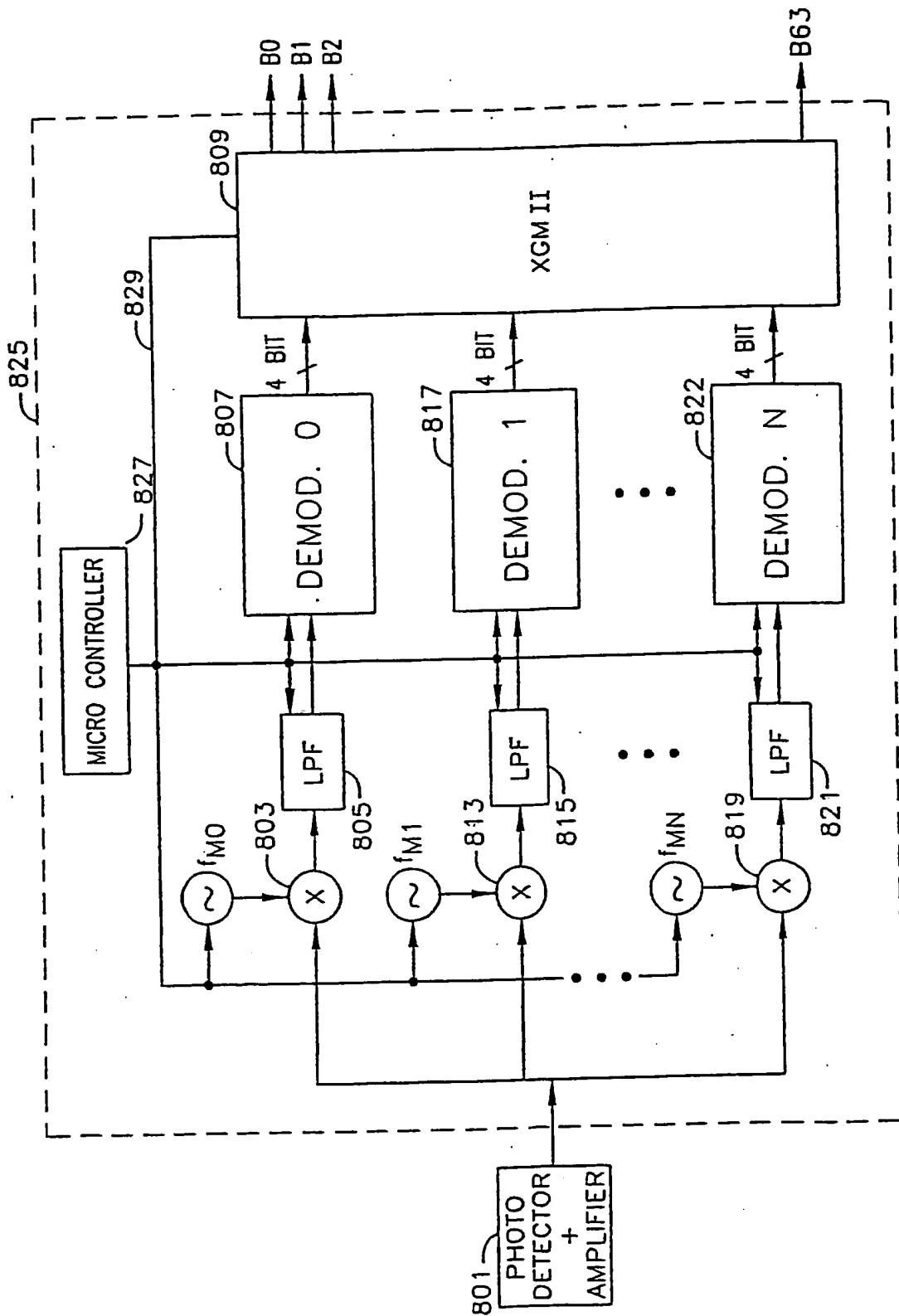
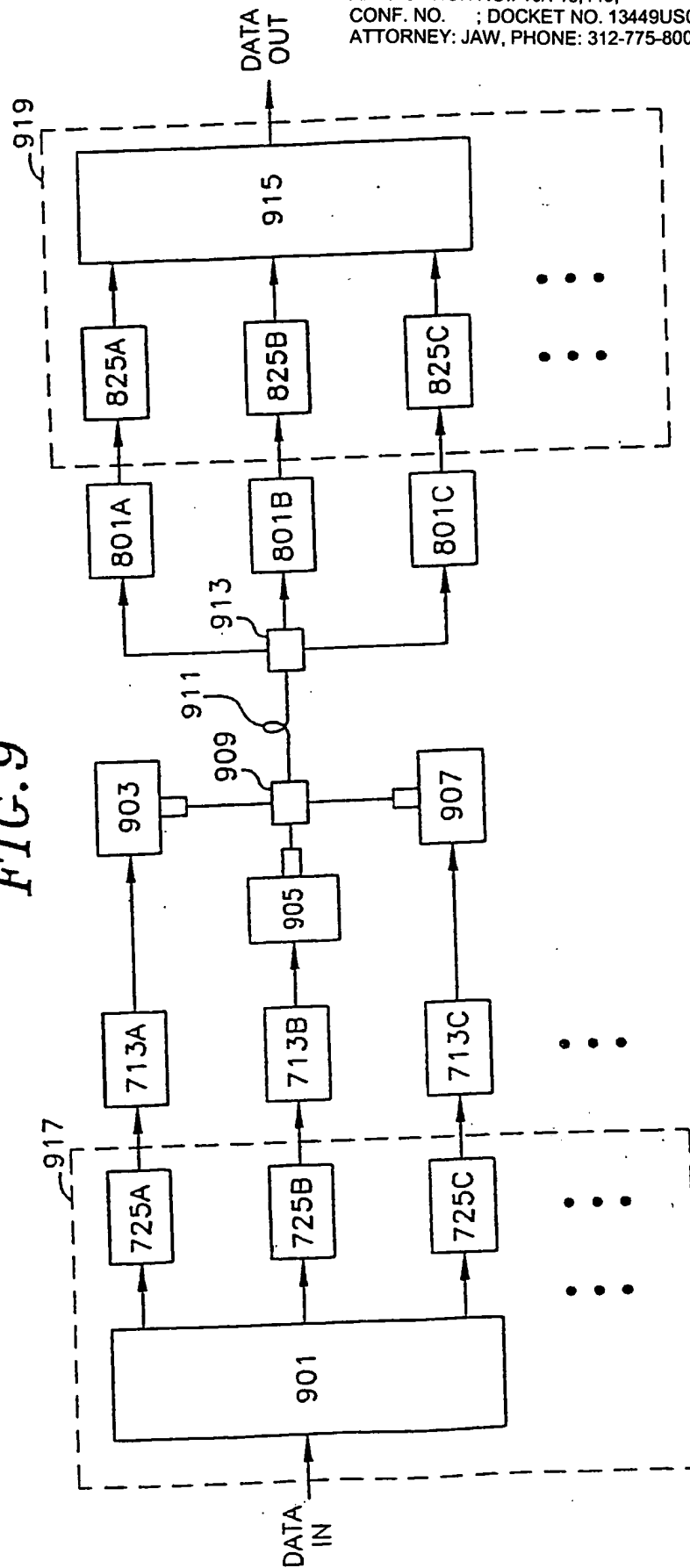


FIG. 8

FIG. 9



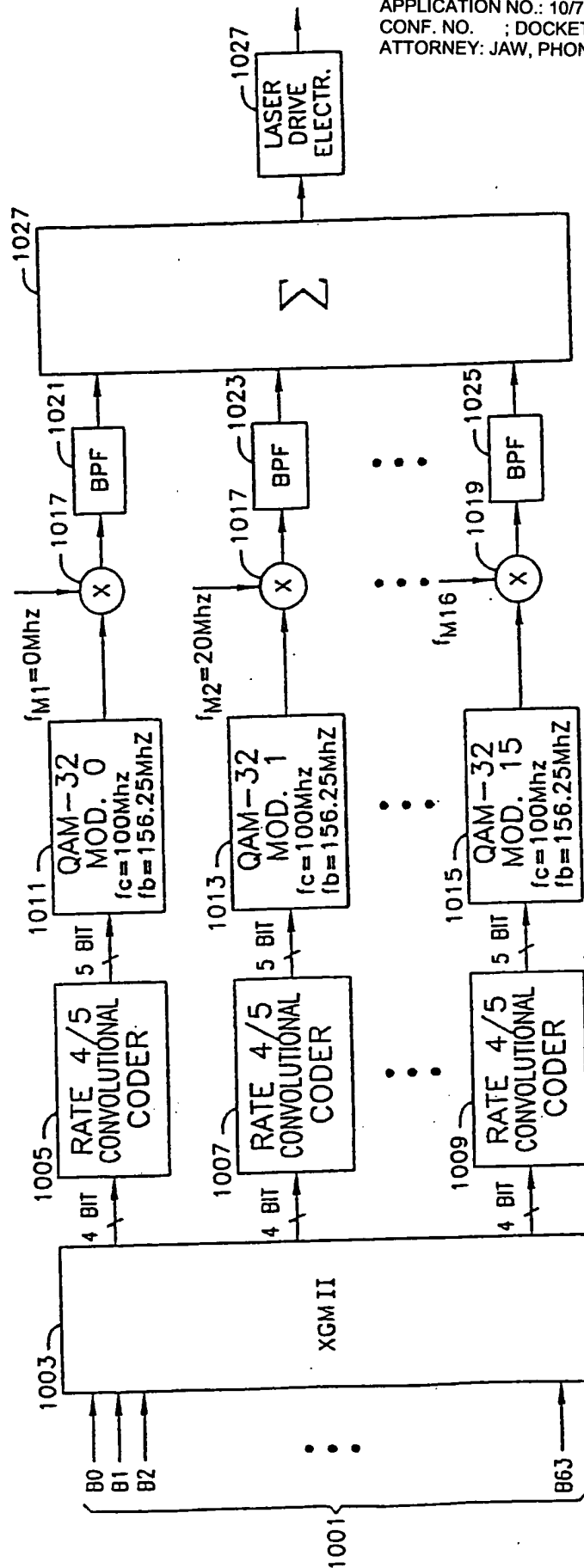


FIG. 10



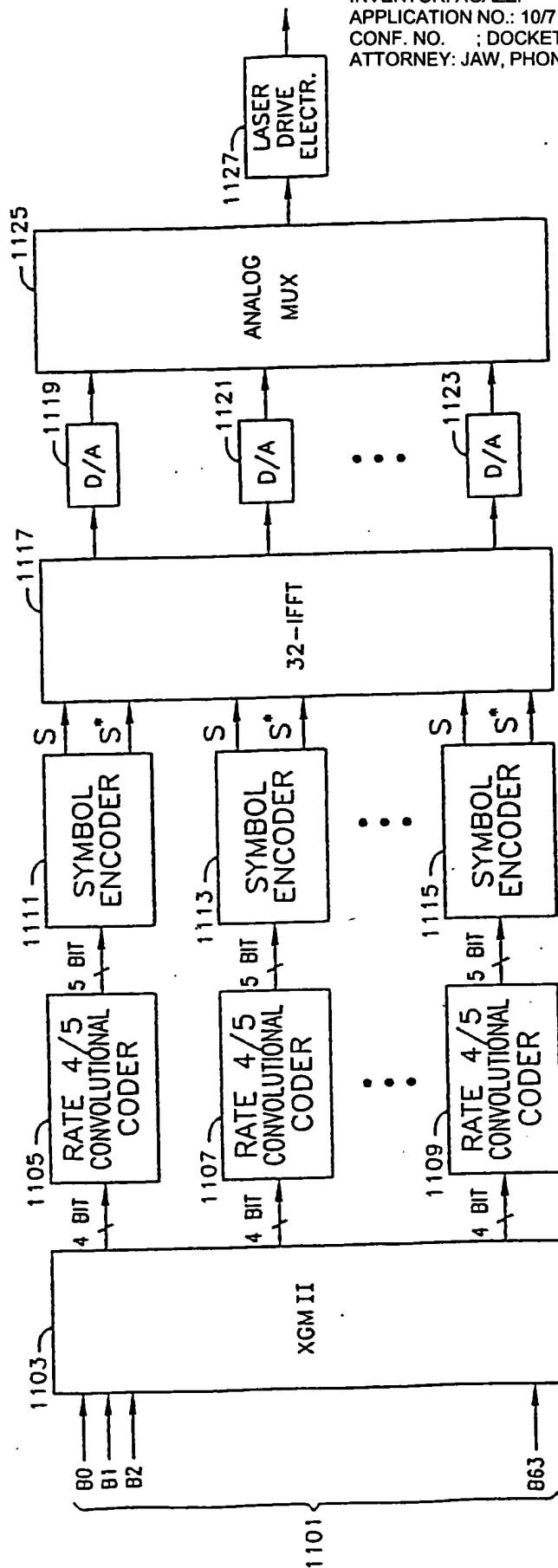


FIG. 11

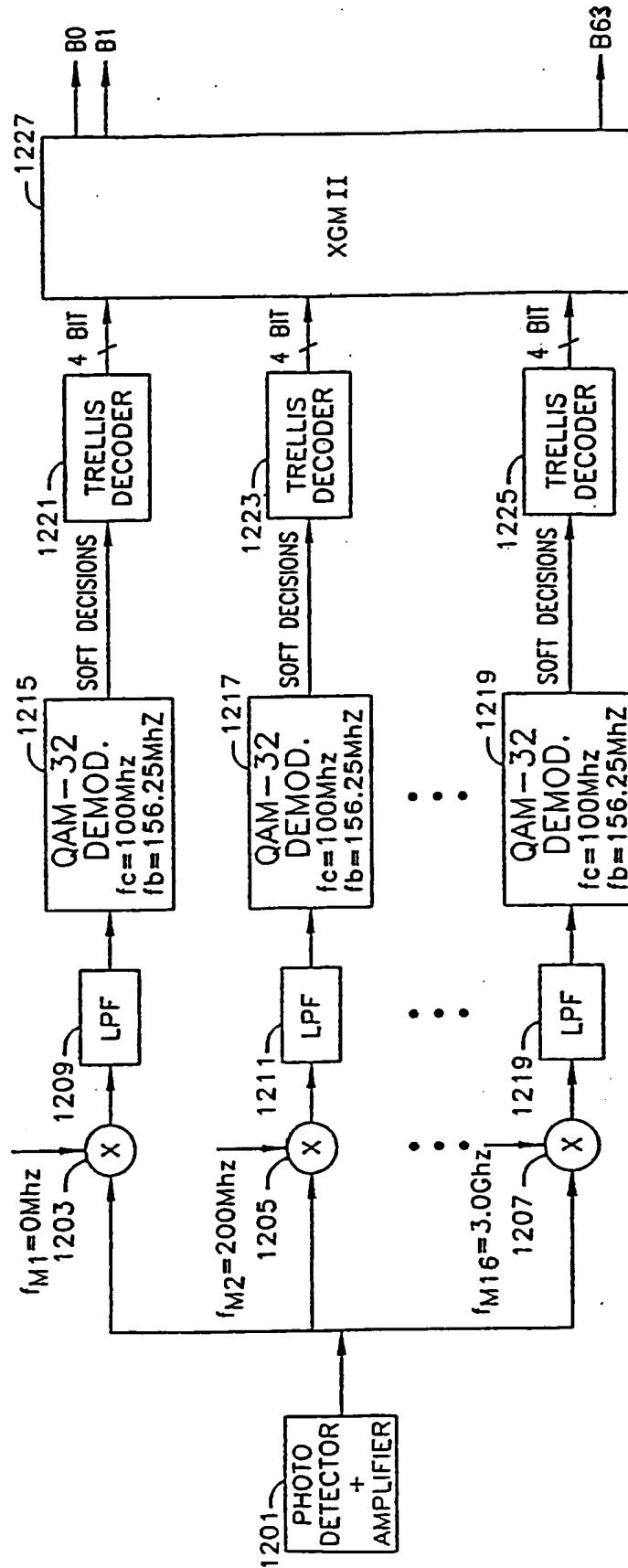


FIG. 12

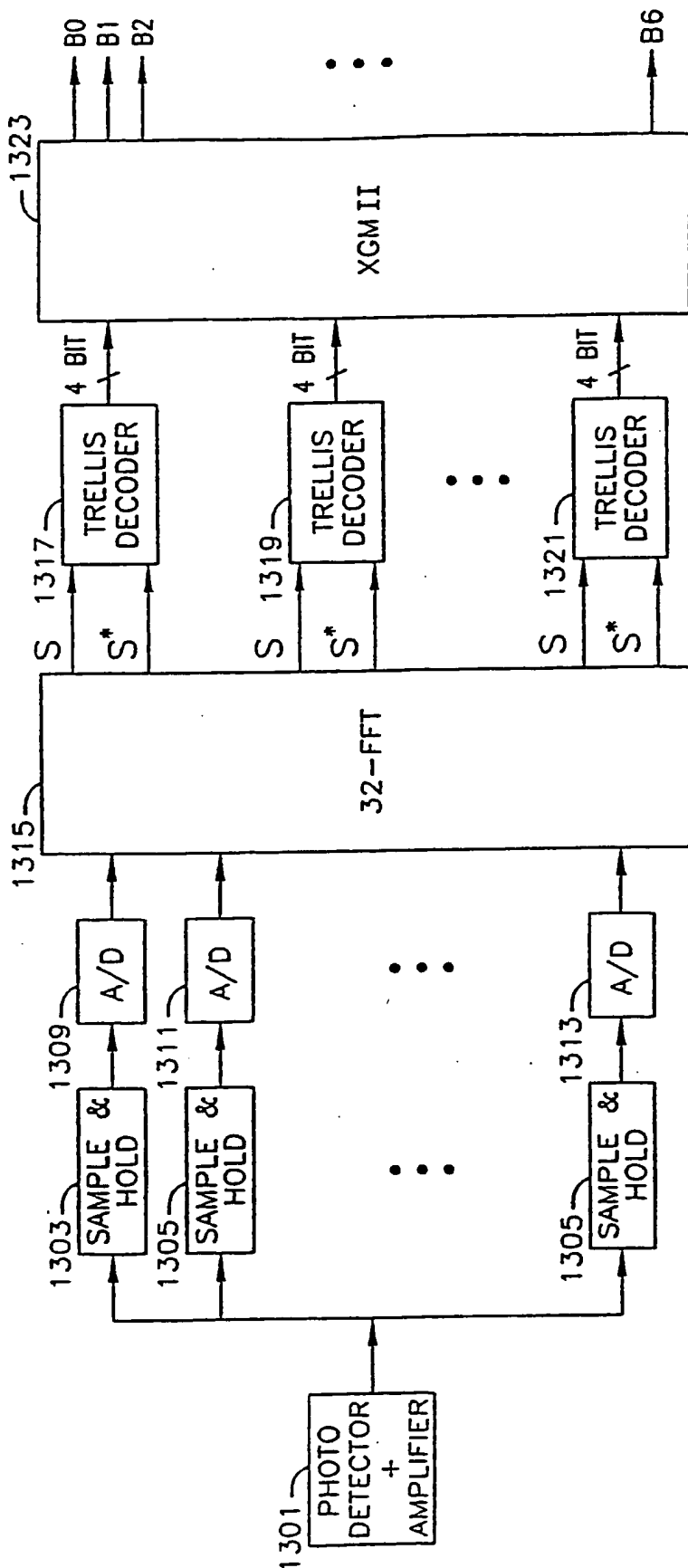


FIG. 13